

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/013375

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01S3/081 H01S3/23

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 100 63 976 A1 (LZH LASERZENTRUM HANNOVER E.V) 4 July 2002 (2002-07-04) column 1, line 48 - column 4, line 15 column 4, line 67 - column 6, line 37 figures 1,4	1-11
X	GUANGHUA CHENG, LIANJUN YU, YISHAN WANG, QING LIU, GUOFU CHEN, WEI ZHAO: "A compact Ti:sapphire femtosecond pulse amplifier without stretcher at high repetition rate" CHINESE OPTICS LETTERS, vol. 1, no. 4, 20 April 2003 (2003-04-20), pages 225-227, XP009044763 CHINA cited in the application the whole document	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

7 March 2005

Date of mailing of the international search report

16/03/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>NORRIS T B: "FEMTOSECOND PULSE AMPLIFICATION AT 250 KHZ WITH A TI:SAPPHIRE REGENERATIVE AMPLIFIER AND APPLICATION TO CONTINUUM GENERATION" OPTICS LETTERS, OPTICAL SOCIETY OF AMERICA, WASHINGTON, US, vol. 17, no. 14, 15 July 1992 (1992-07-15), pages 1009-1011, XP000288964 ISSN: 0146-9592 cited in the application the whole document</p>	1
X	<p>JOO T ET AL: "TI:SAPPHIRE REGENERATIVE AMPLIFIER FOR ULTRASHORT HIGH-POWER MULTIKILOHERTZ PULSES WITHOUT AN EXTERNAL STRETCHER" OPTICS LETTERS, OPTICAL SOCIETY OF AMERICA, WASHINGTON, US, vol. 20, no. 4, 15 February 1995 (1995-02-15), pages 389-391, XP000491035 ISSN: 0146-9592 cited in the application the whole document</p>	1
A	<p>KAWANAKA F ET AL: "Q-switching operation with a diode-pumped cooled Yb:LiYF<sub>4</sub> for chirped pulse regenerative amplification" CONFERENCE ON LASERS AND ELECTRO-OPTICS. (CLEO 2002). TECHNICAL DIGEST. POSTCONFERENCE EDITION. LONG BEACH, CA, MAY 19 - 24, 2002, TRENDS IN OPTICS AND PHOTONICS. (TOPS), WASHINGTON, WA : OSA, US, vol. VOL. 73, 19 May 2002 (2002-05-19), pages 404-404, XP010606879 ISBN: 1-55752-706-7 the whole document</p>	1-11
A	<p>EP 0 798 825 A (HAMAMATSU PHOTONICS K.K) 1 October 1997 (1997-10-01) column 10, line 40 - column 12, line 55 figure 1</p>	1-11

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/013375

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 10063976	A1	04-07-2002	NONE	
EP 0798825	A	01-10-1997	JP 9260762 A	03-10-1997
			DE 69721888 D1	18-06-2003
			DE 69721888 T2	13-05-2004
			EP 0798825 A2	01-10-1997
			US 5815519 A	29-09-1998

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